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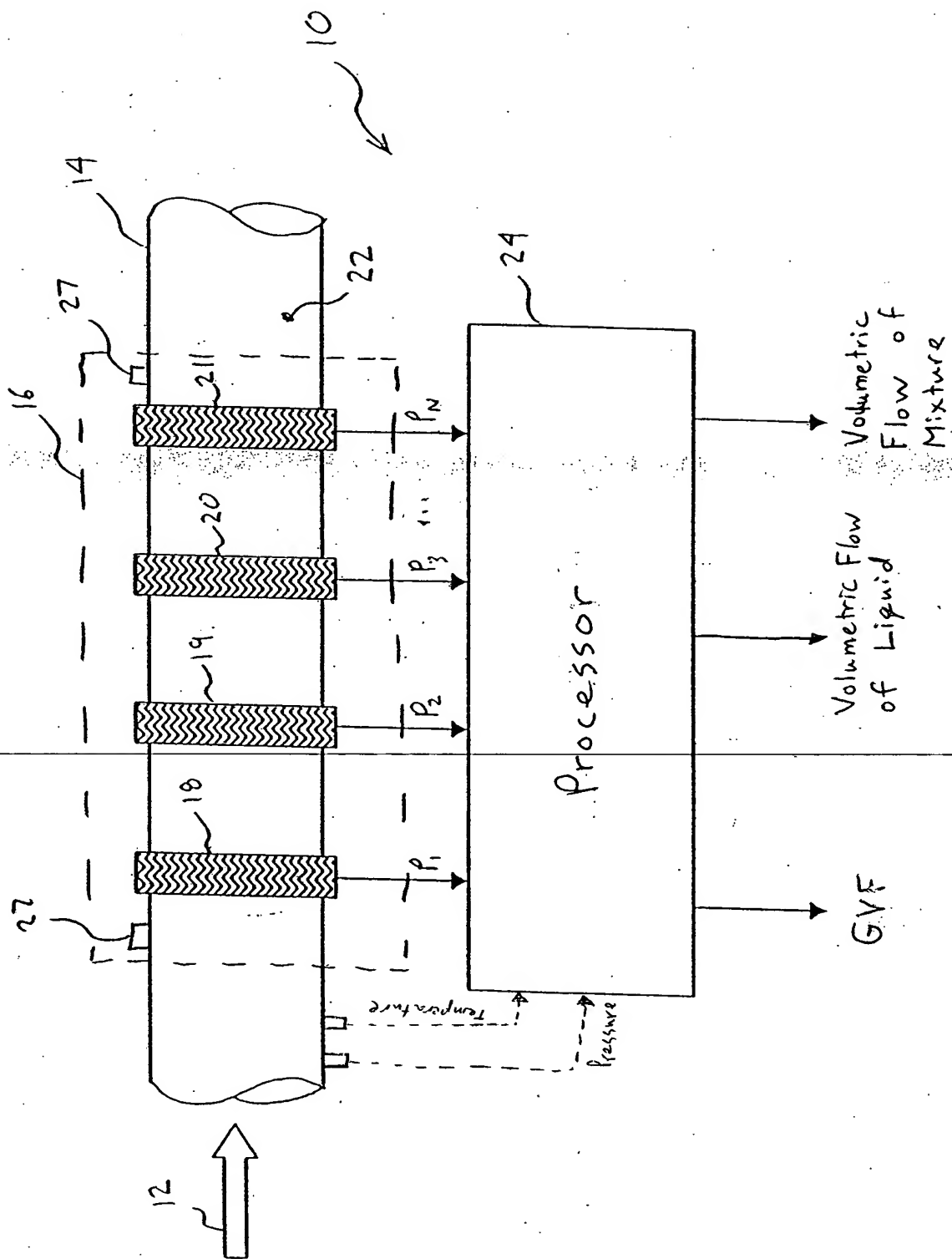


Fig. 1

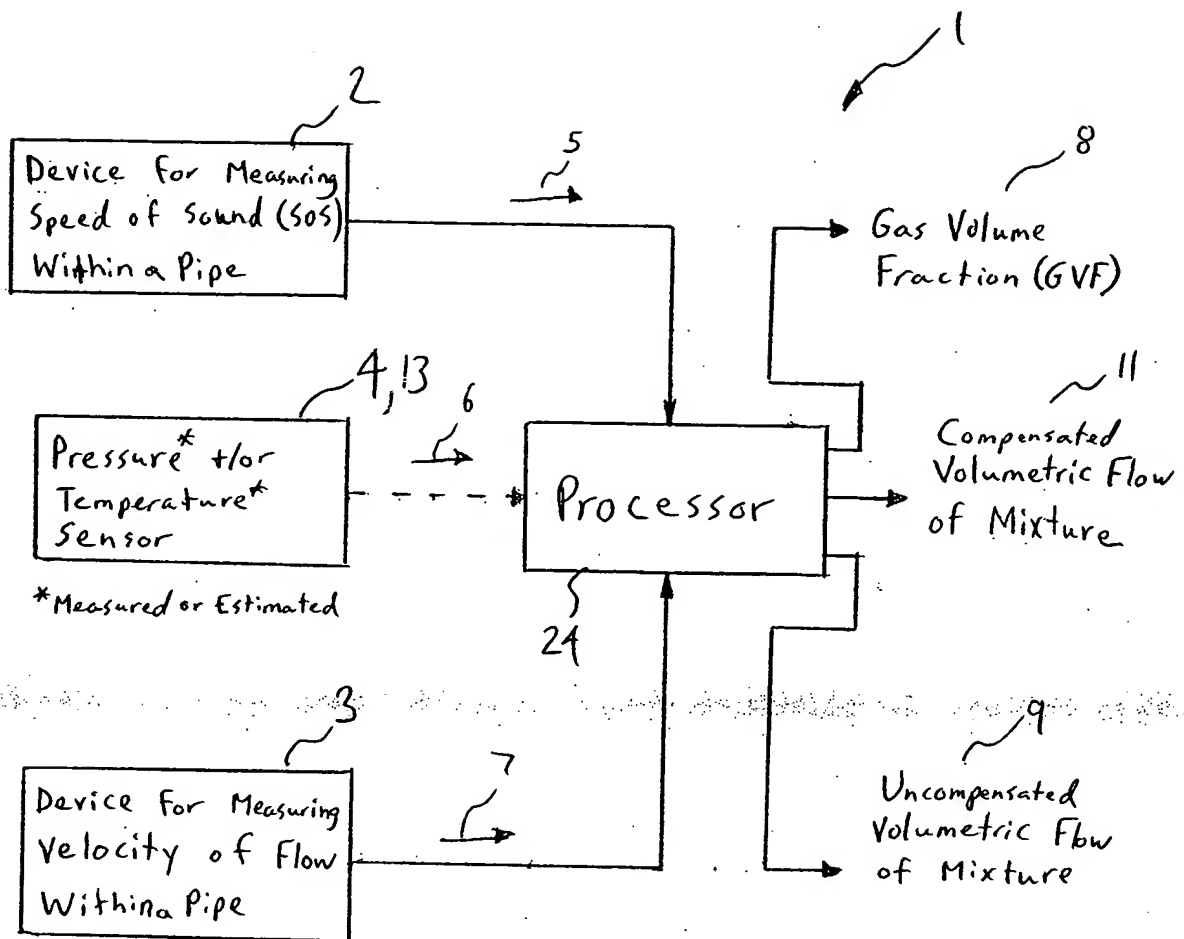


Fig. 2

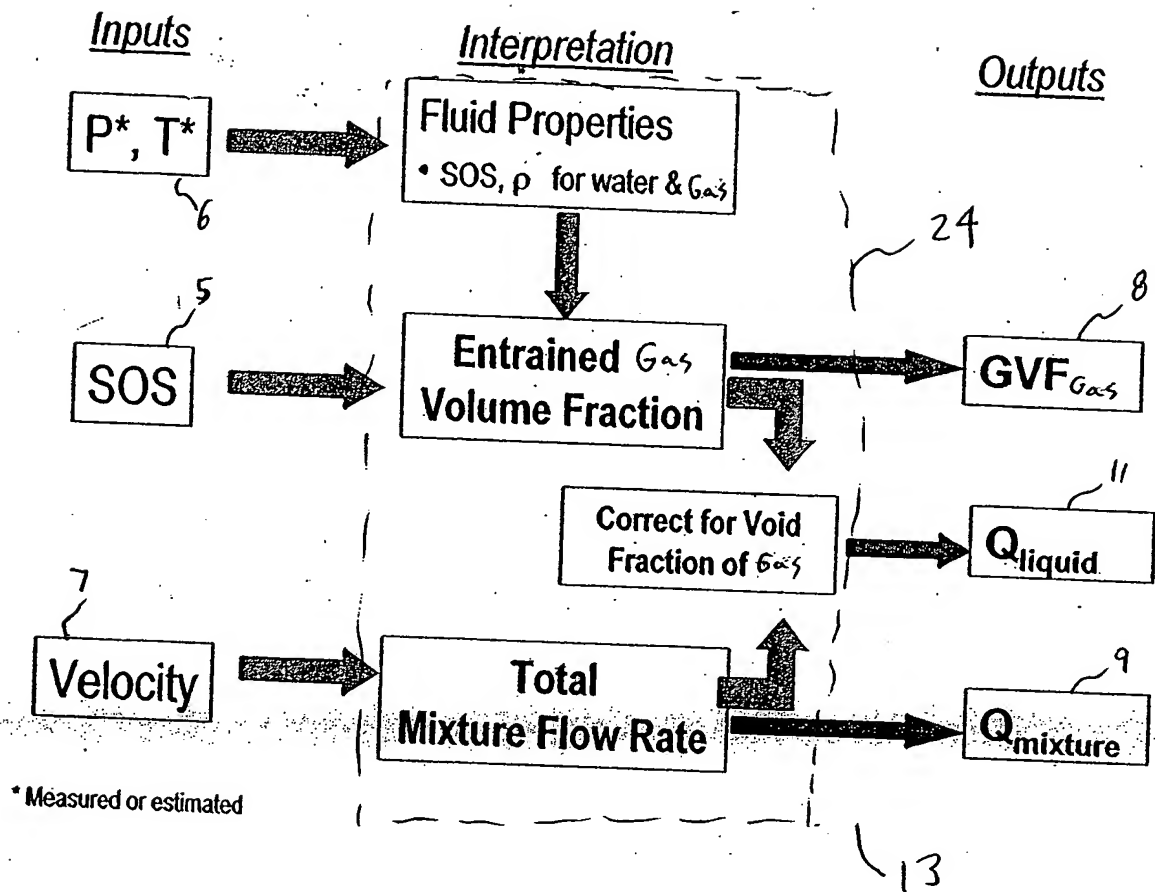


Fig. 3

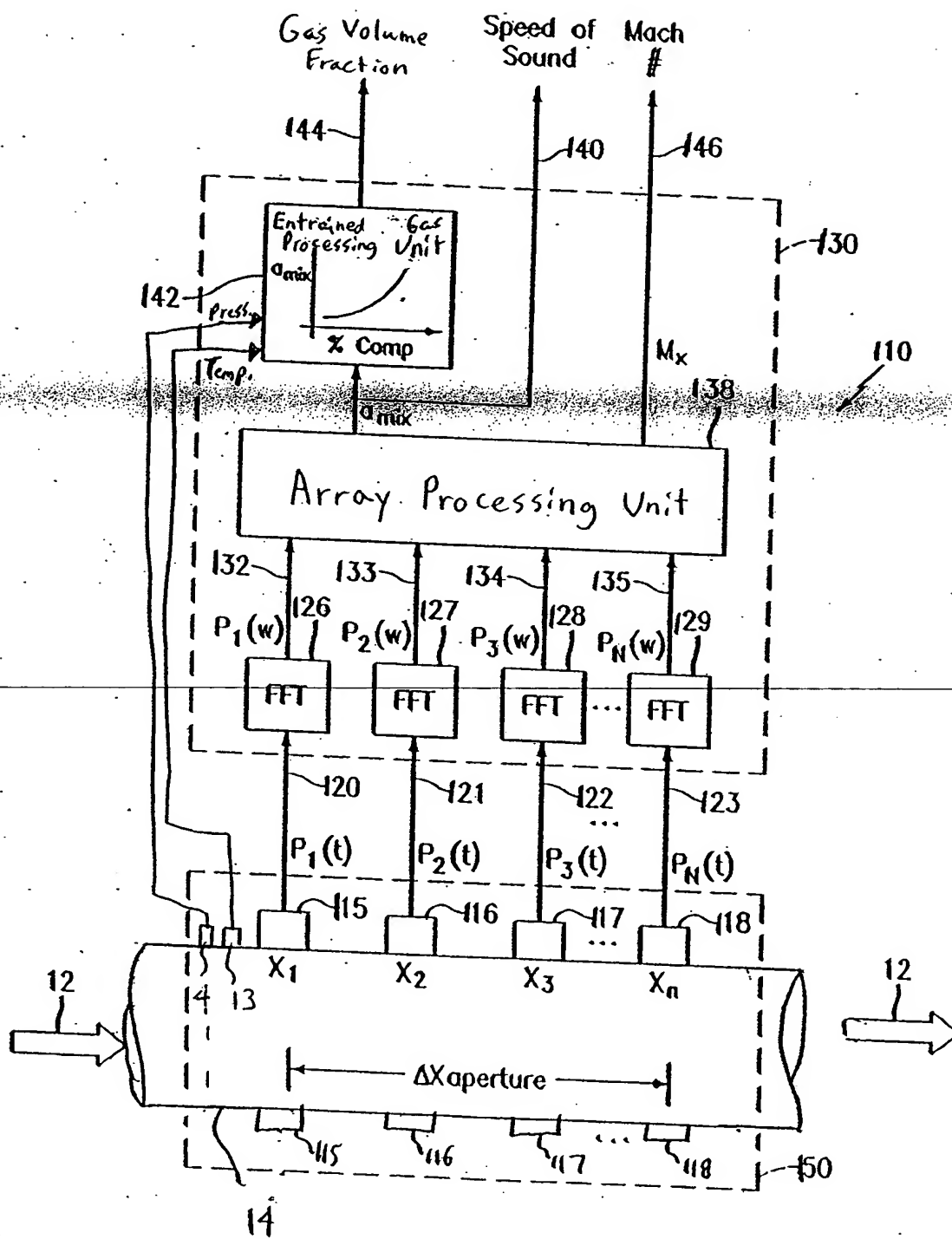


FIG. 4

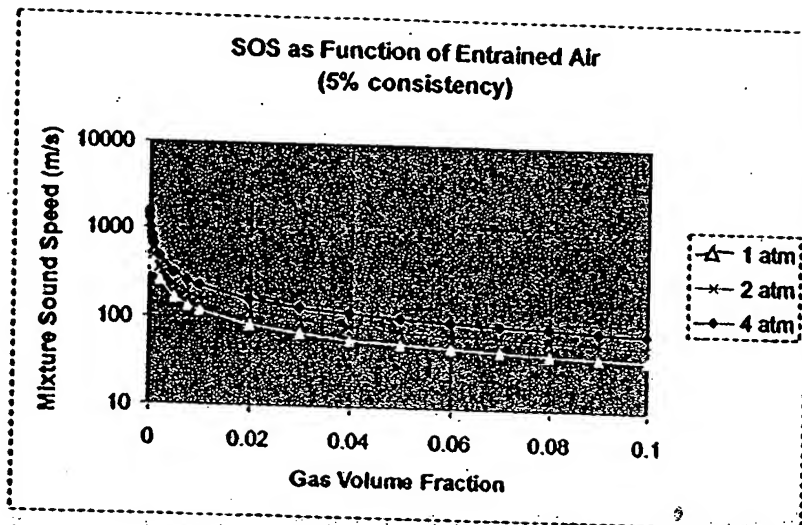


Fig. 5

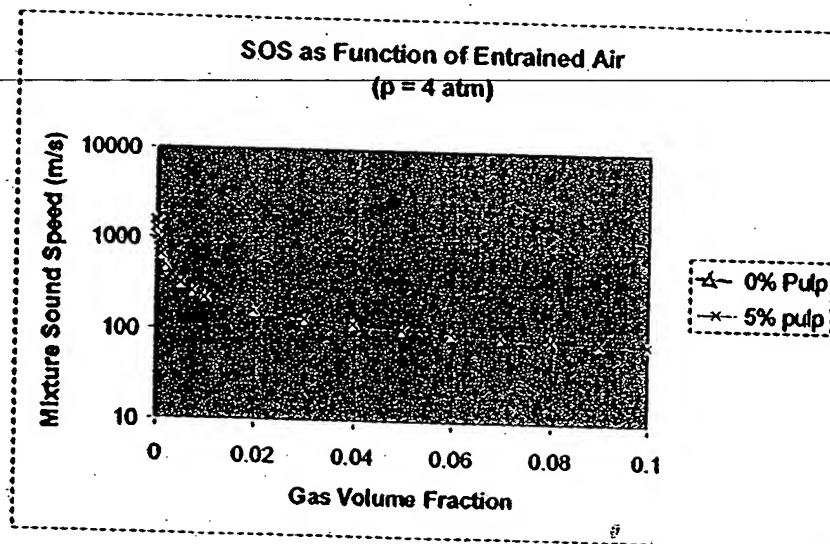


Fig. 6

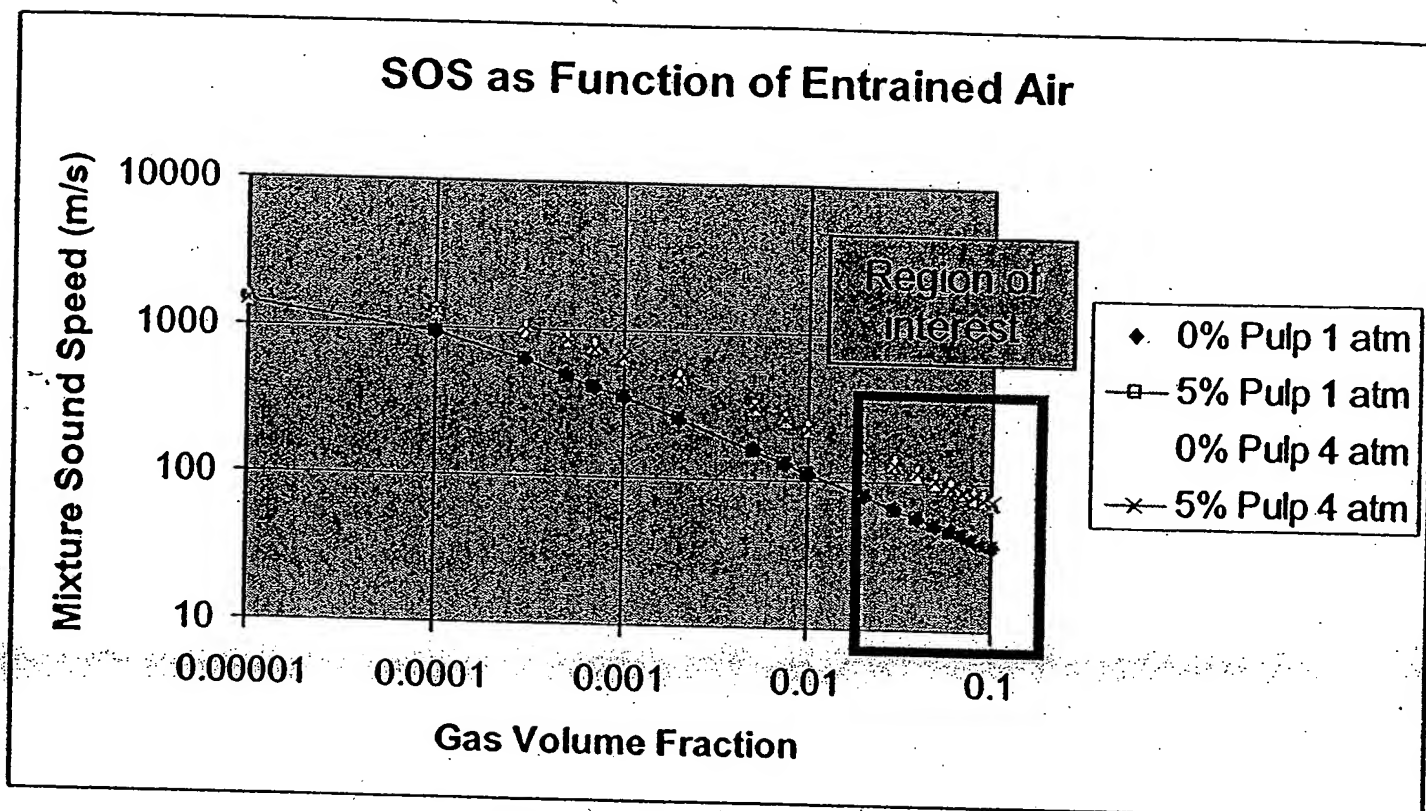


Fig. 7

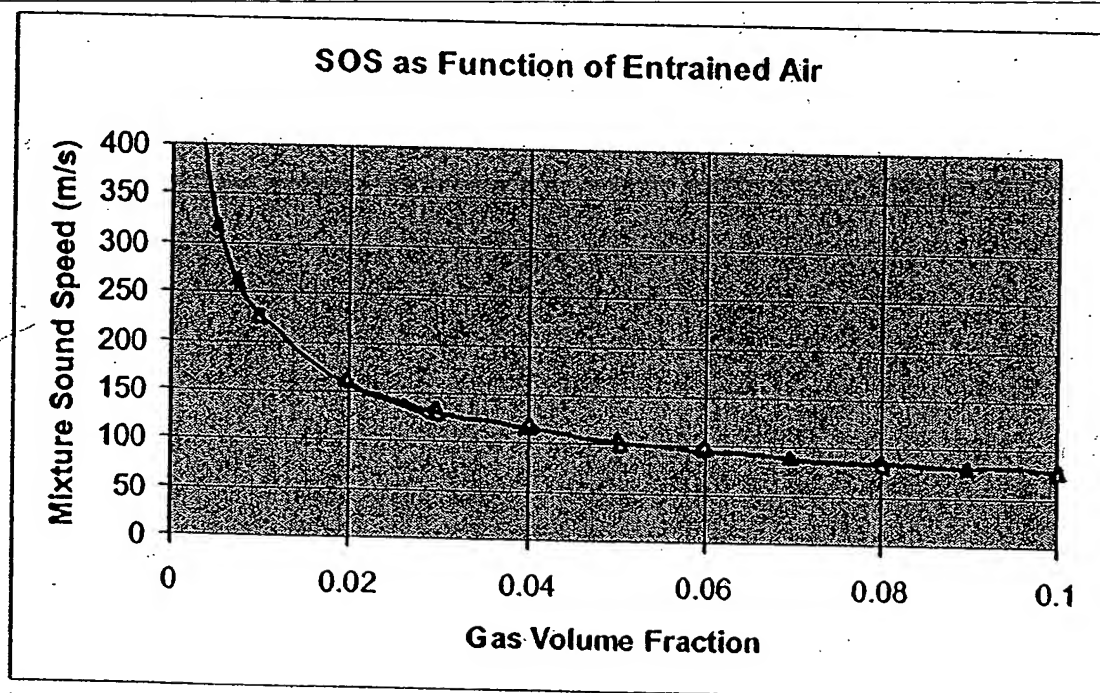


Fig. 8

**K- $\omega$  plot showing Acoustic Ridges  
(in water with entrained air)**

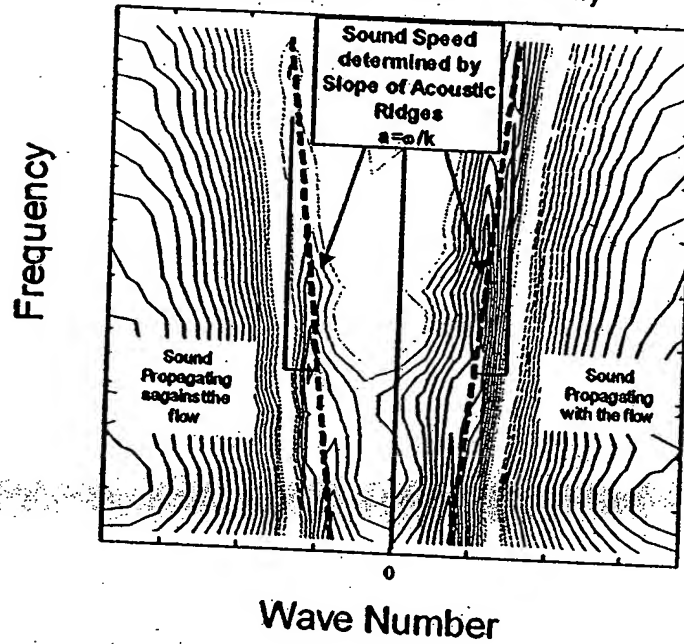


Fig. 9



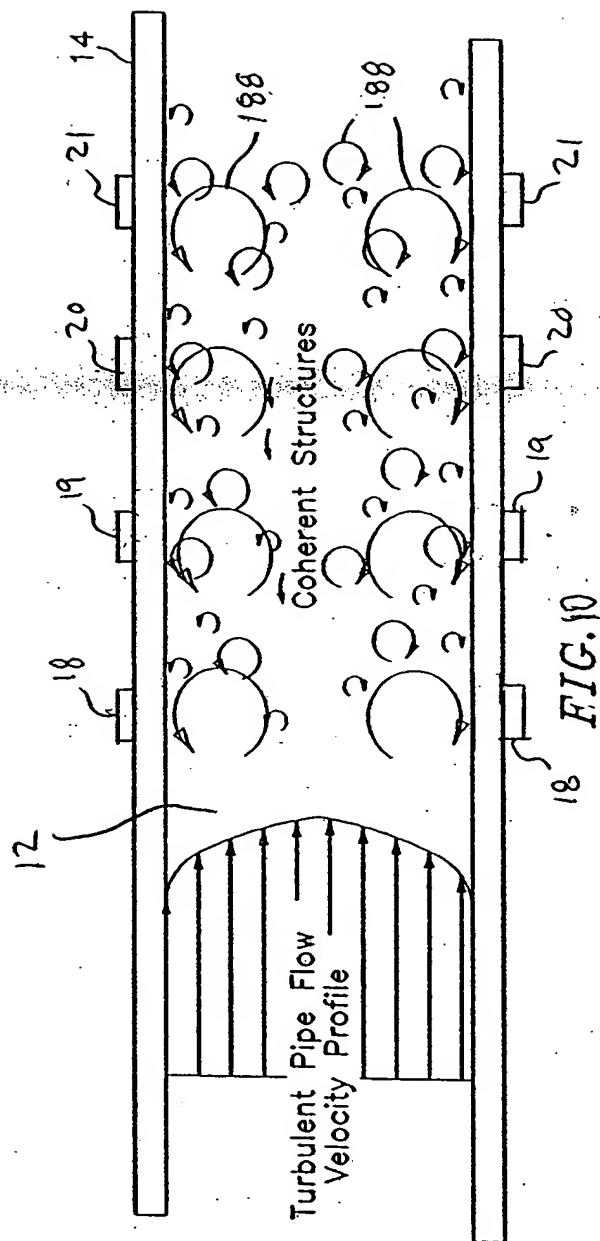


FIG. 10

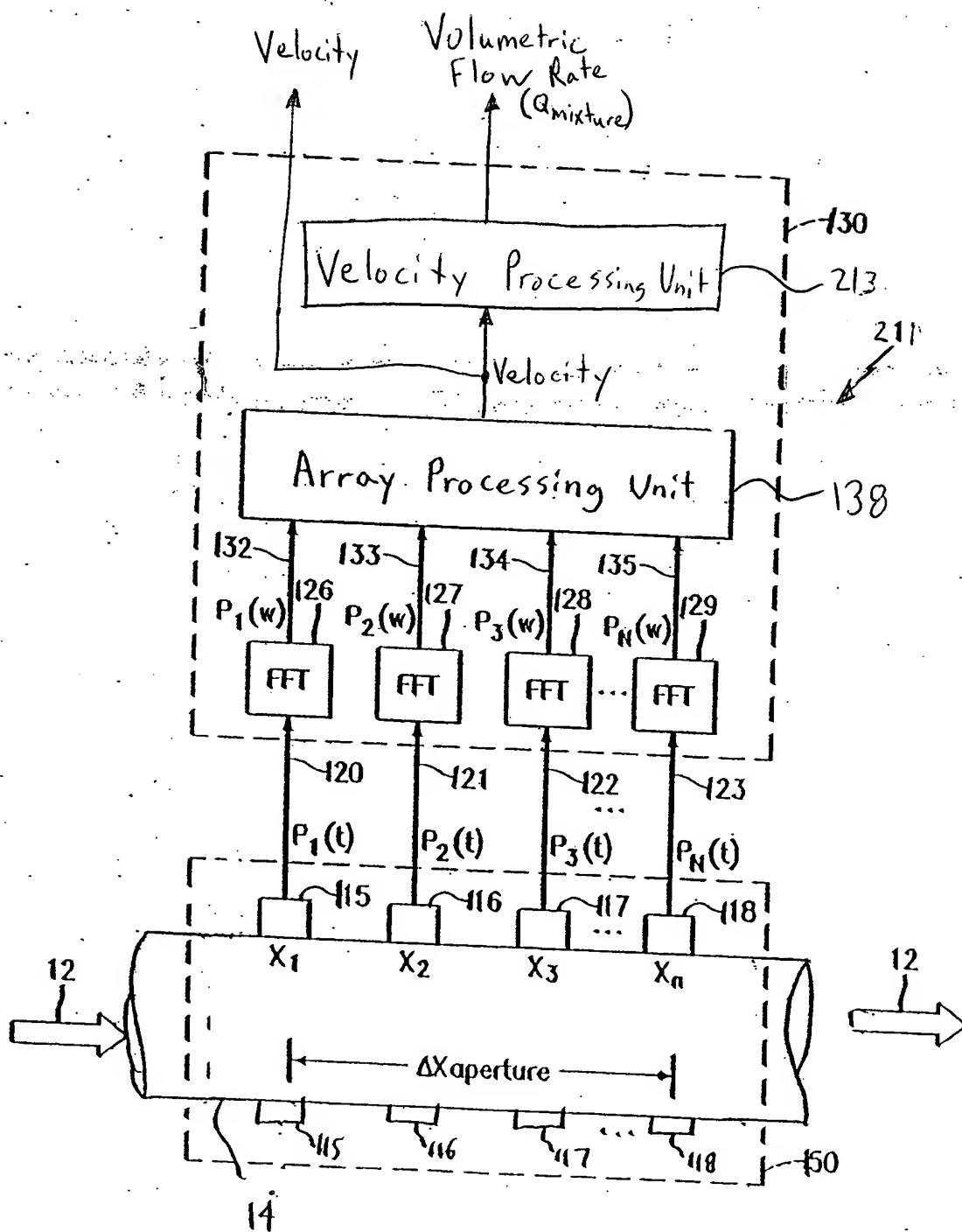
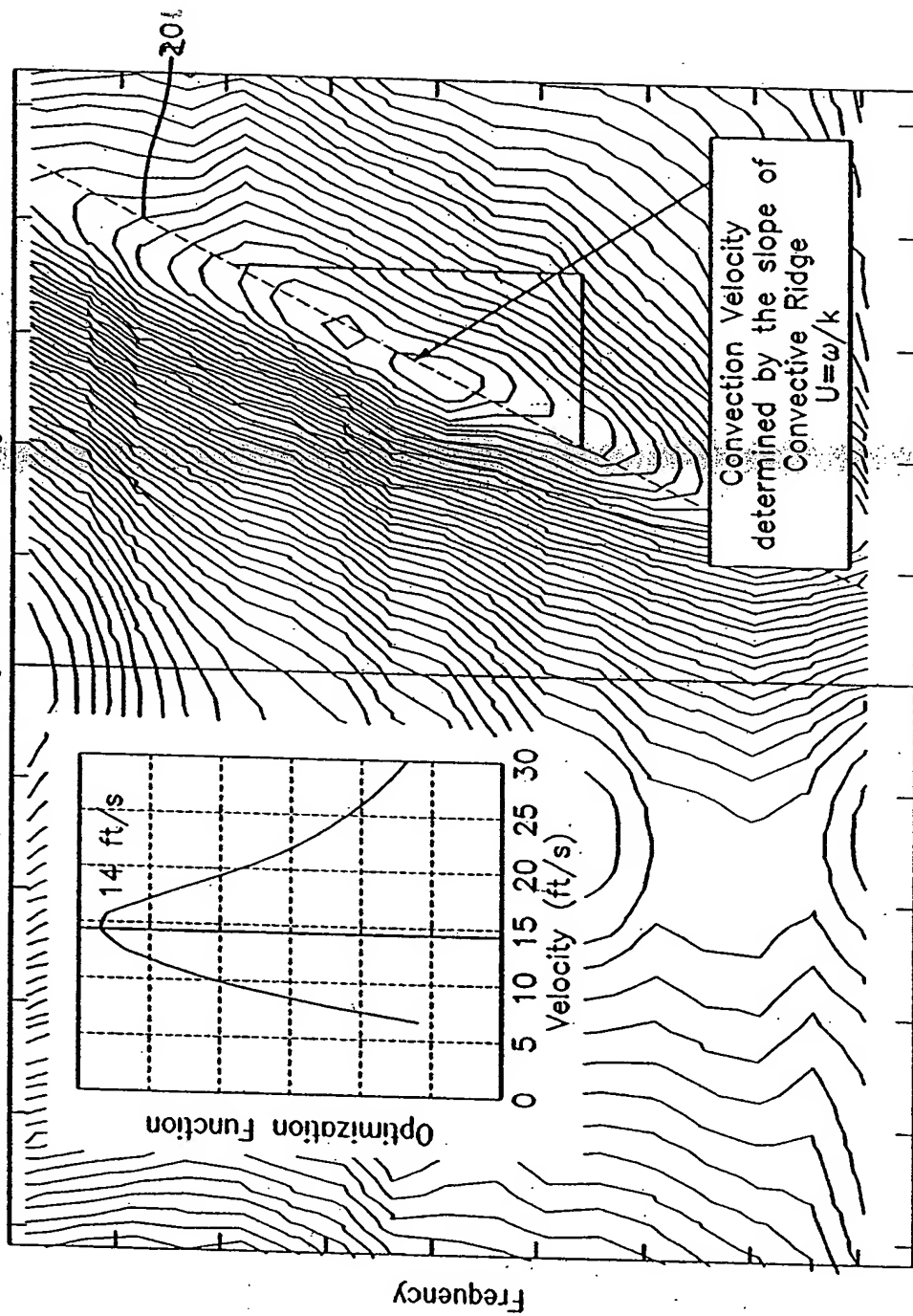


FIG. 11

K- $\omega$  plot showing Convective Ridge



Wave Number  
FIG. 12

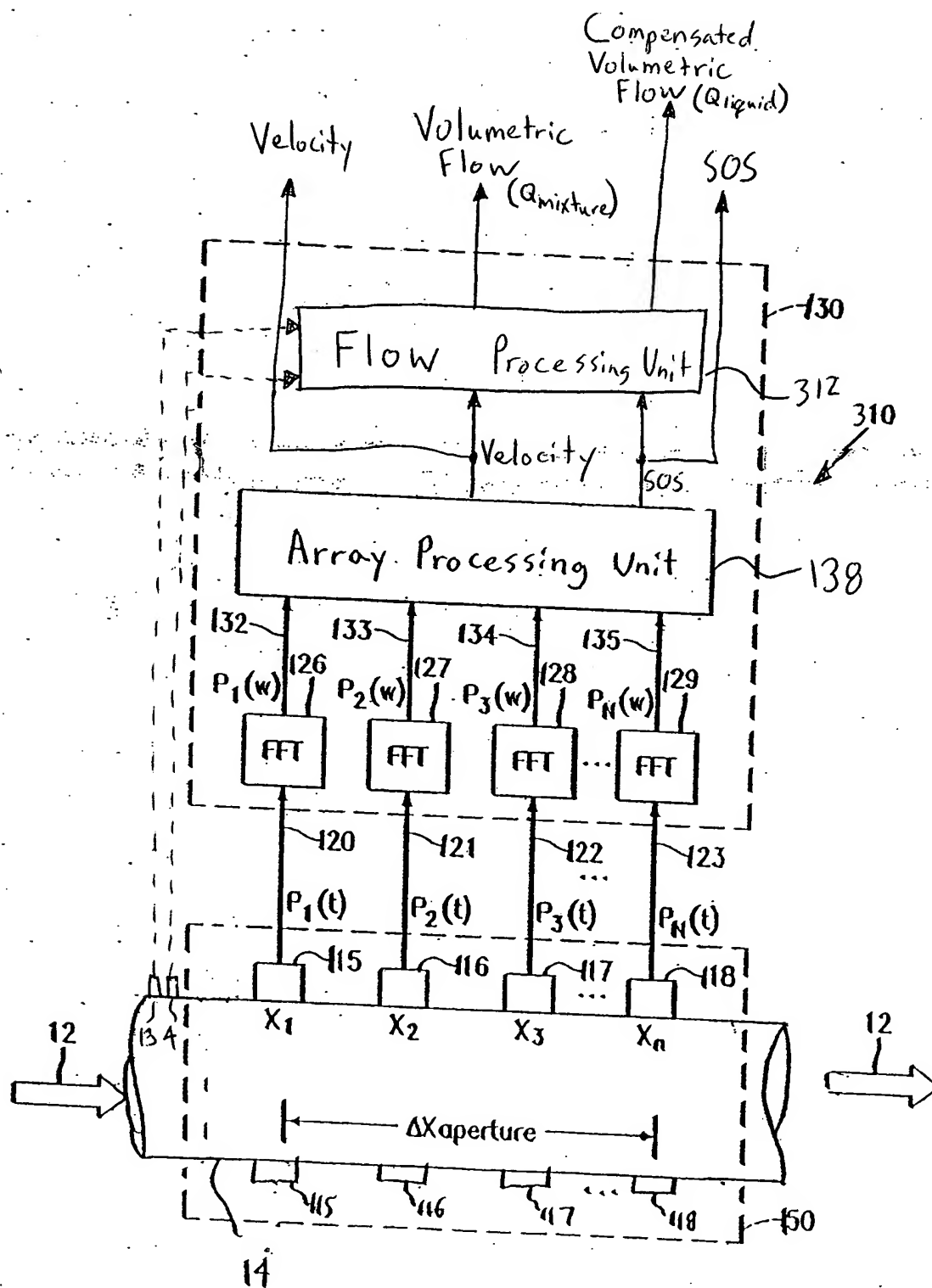


FIG. 13

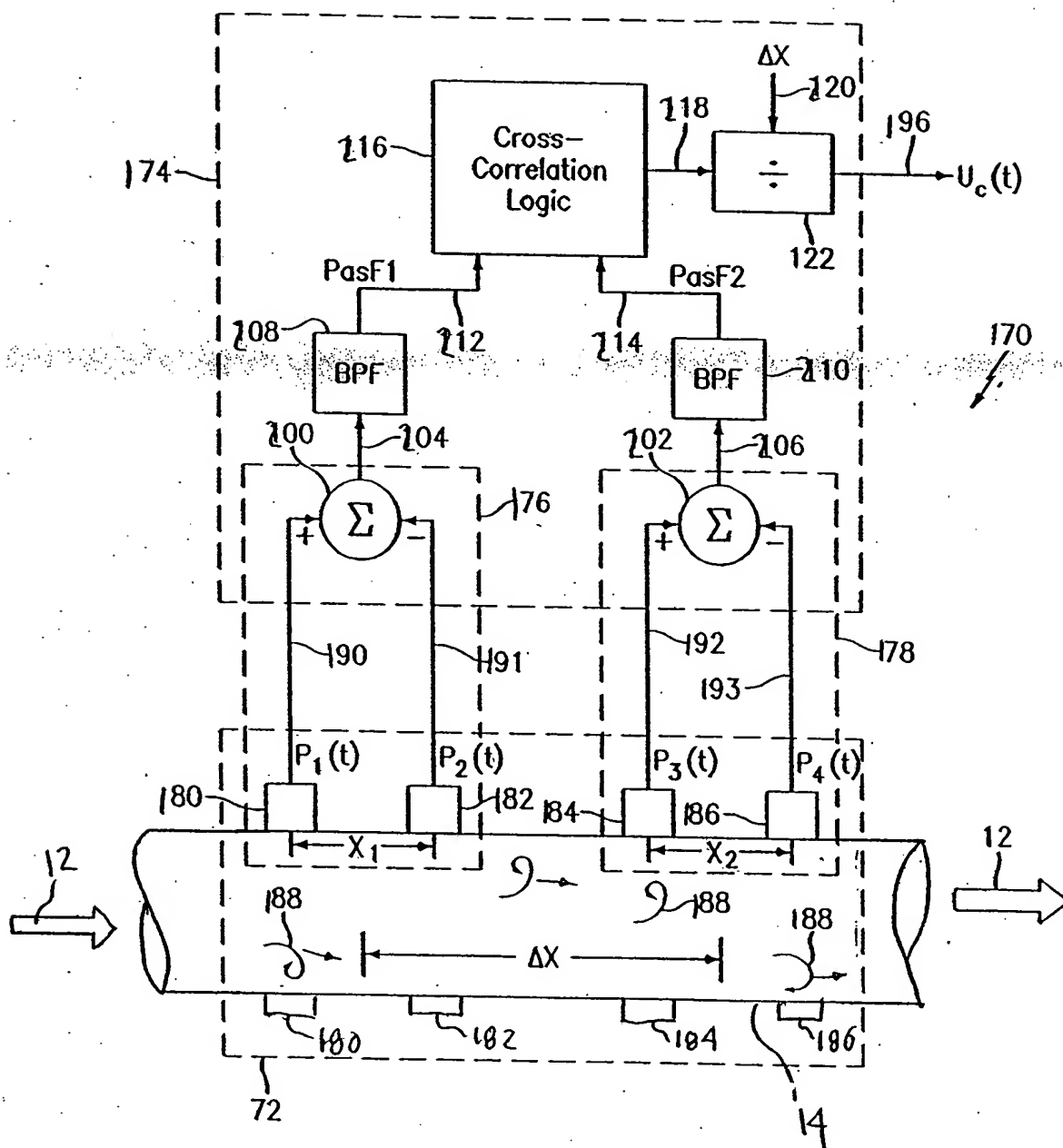


FIG. 14

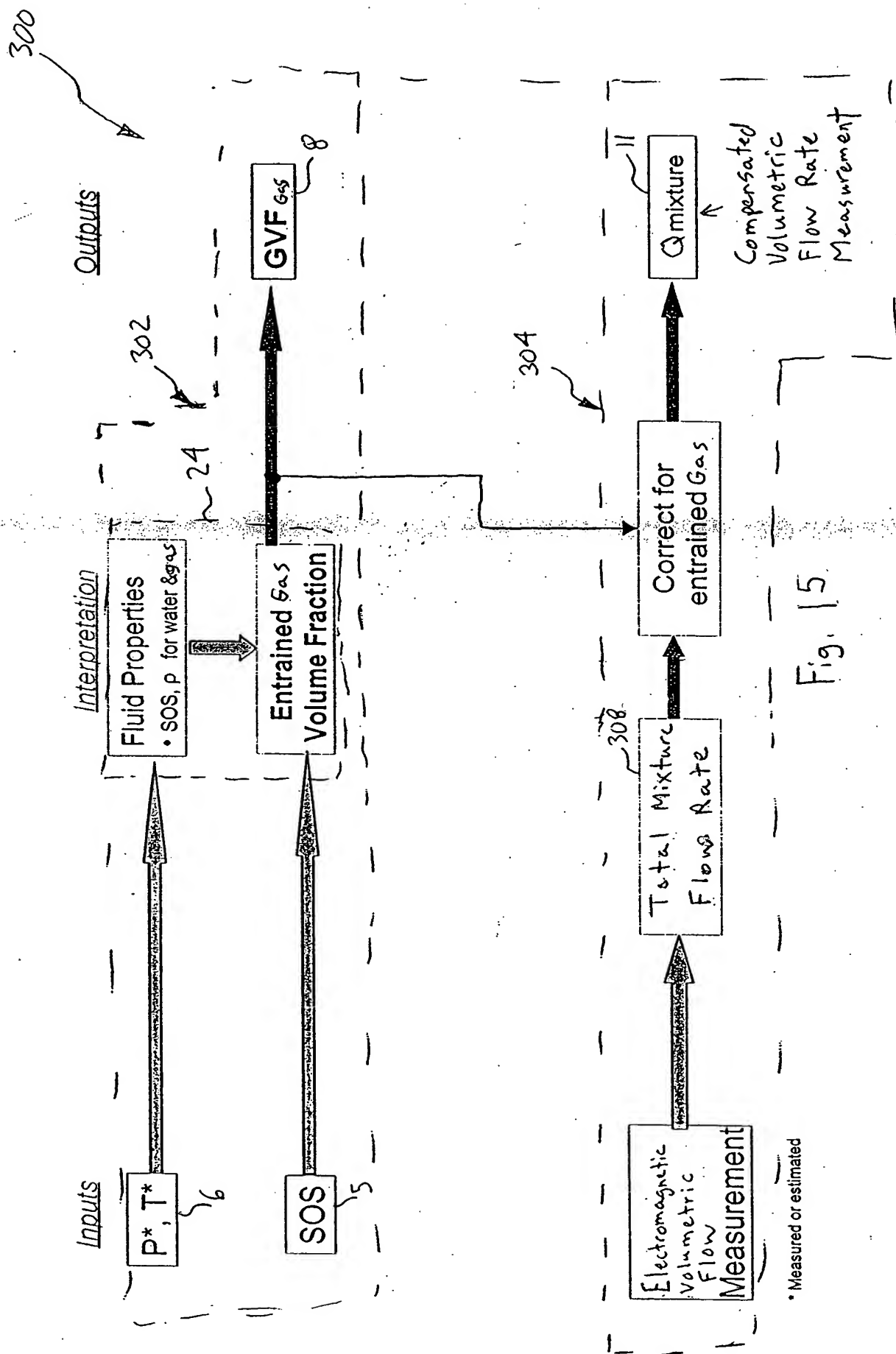


Fig. 15

\* Measured or estimated

400

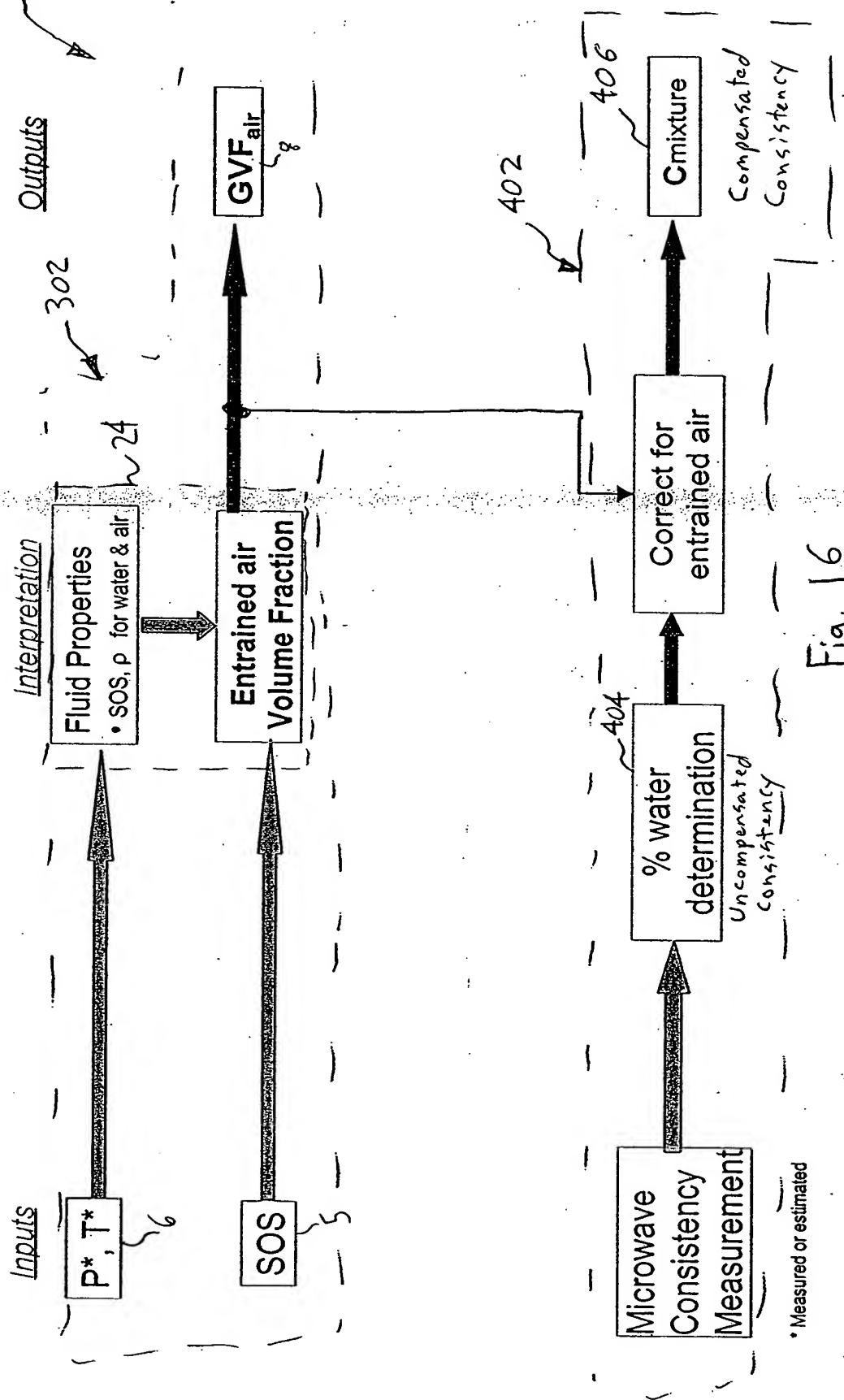


Fig. 16

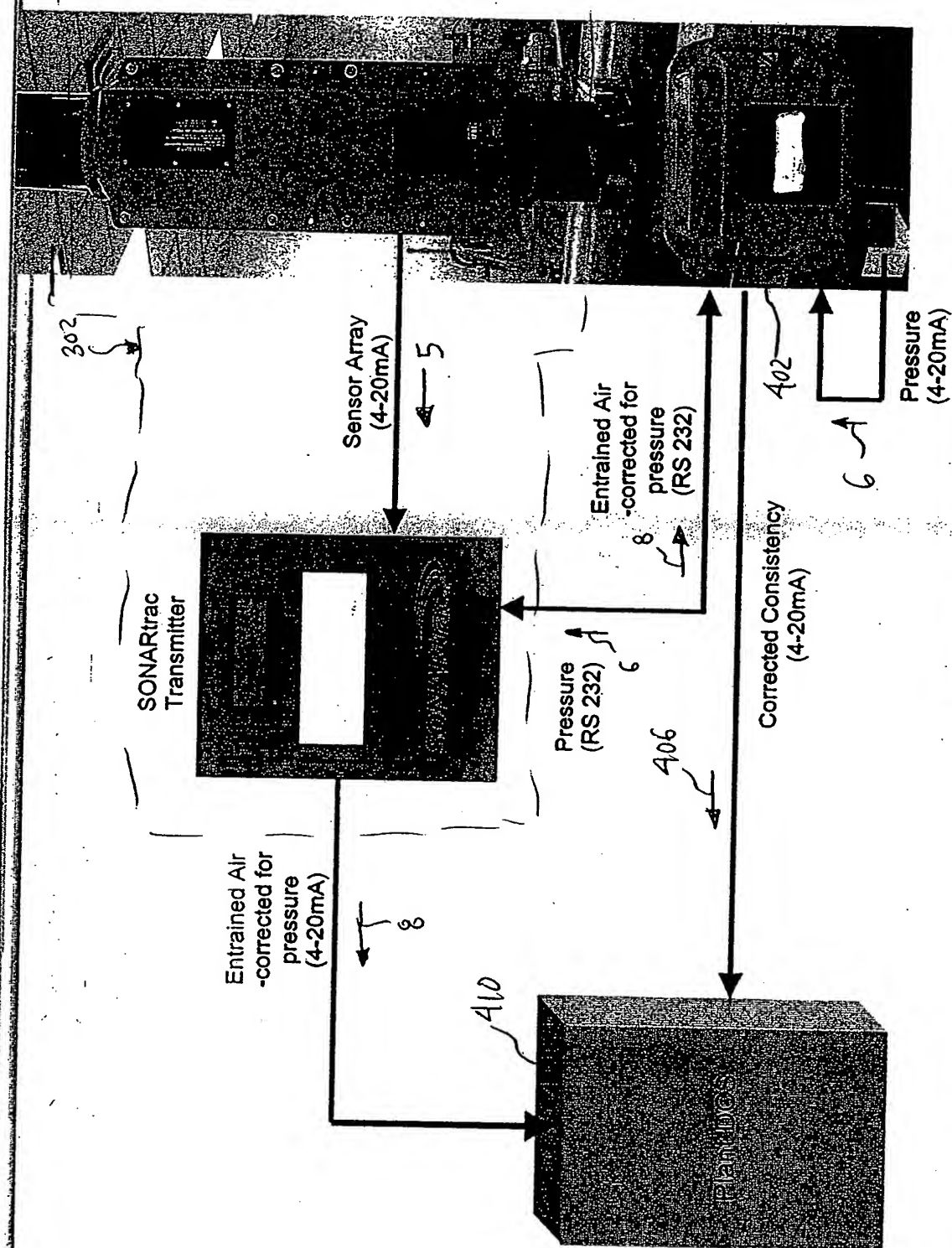
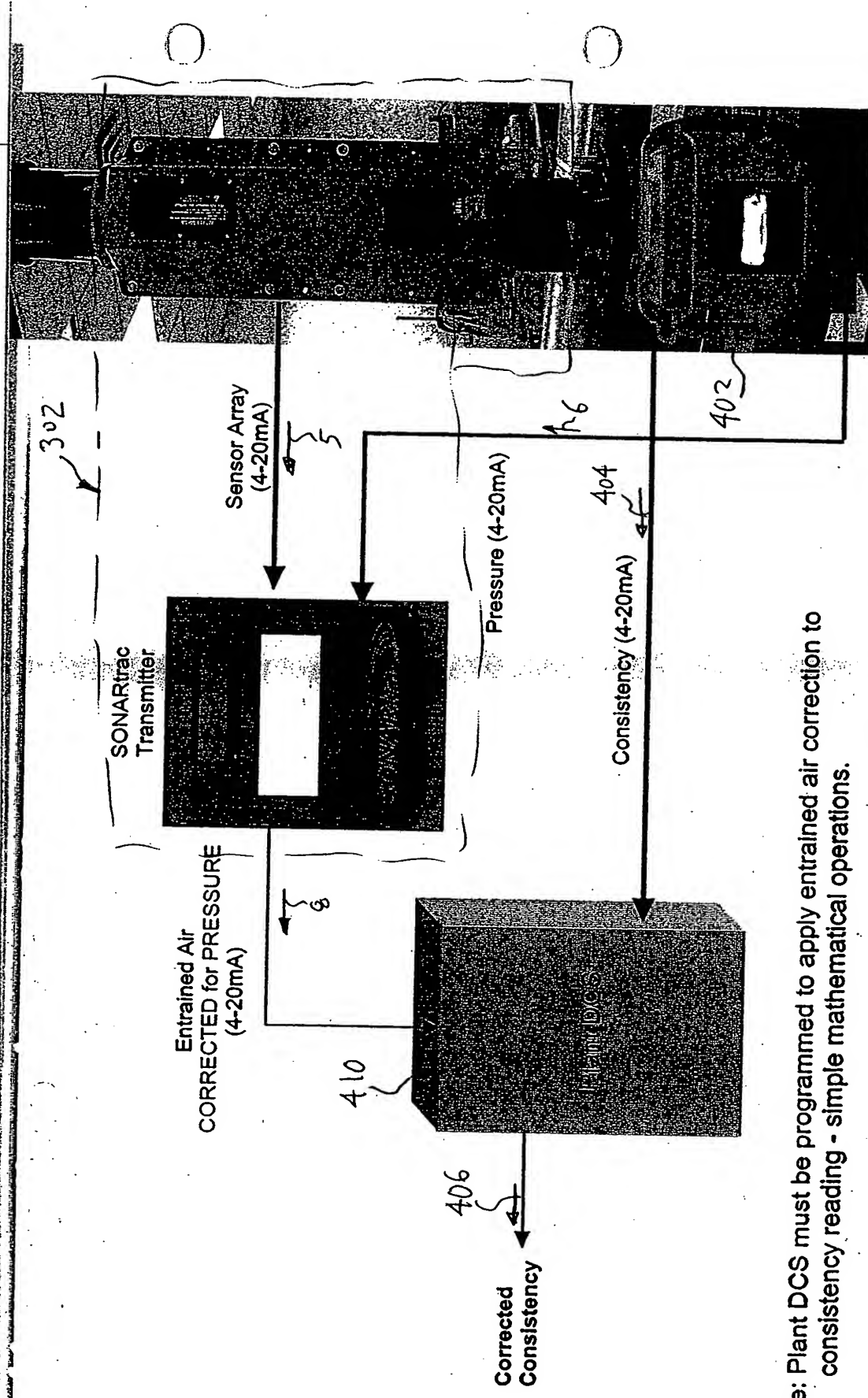
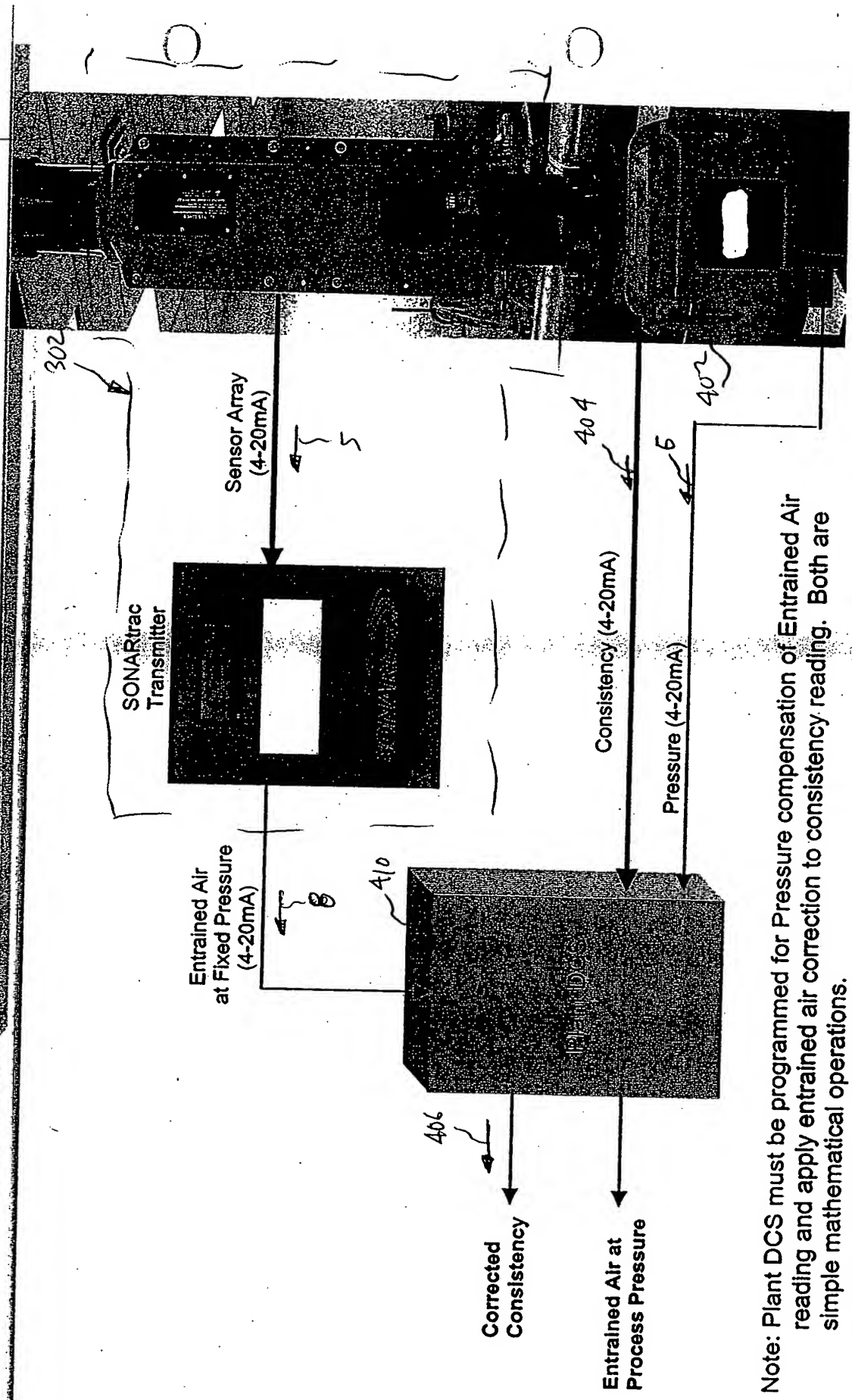


Fig. 17





Note: Plant DCS must be programmed to apply entrained air correction to consistency reading - simple mathematical operations.



Note: Plant DCS must be programmed for Pressure compensation of Entrained Air reading and apply entrained air correction to consistency reading. Both are simple mathematical operations.

Fig. 19

# Microwave Consistency Corrected by CIDRA SONARtrac Entrained Air Measurement

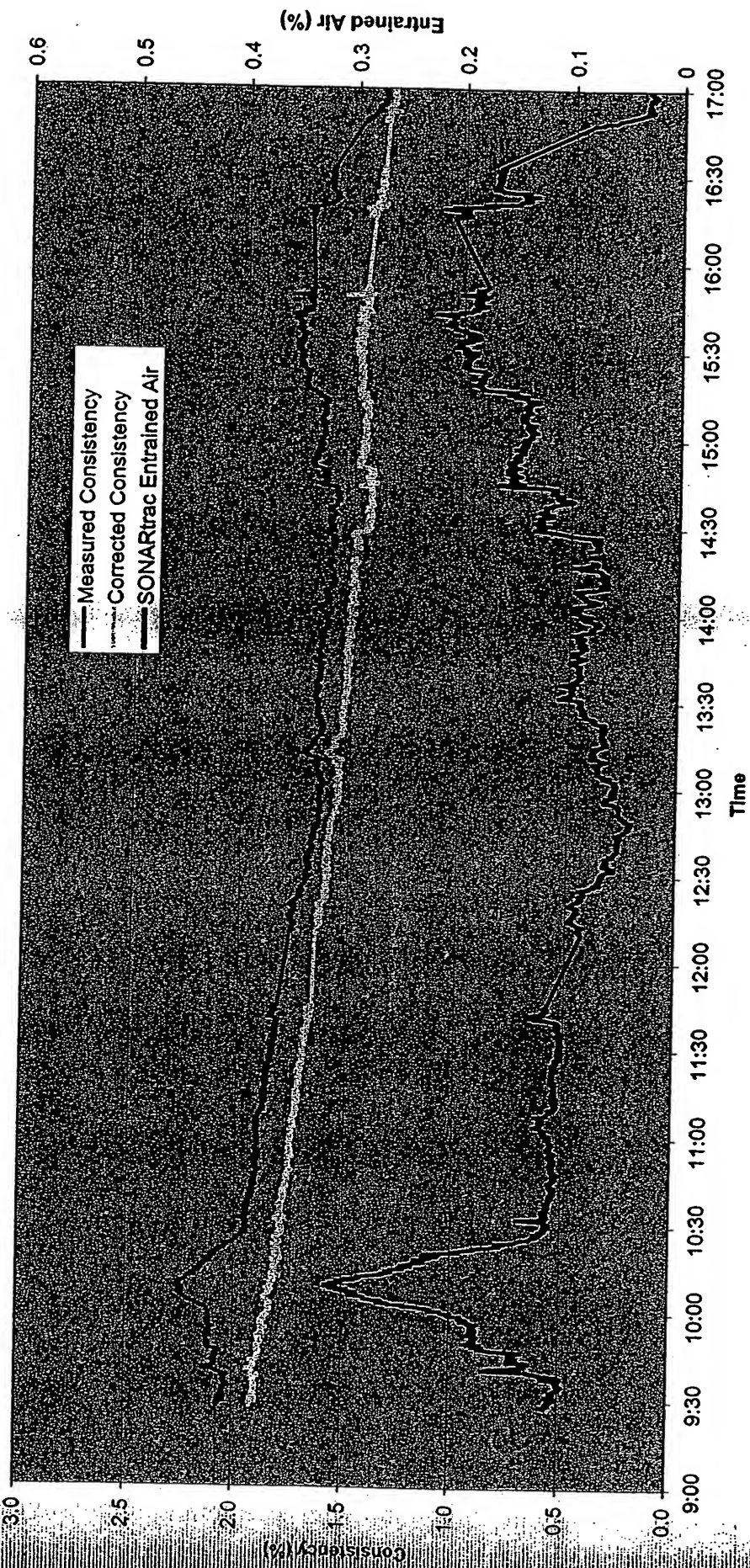


Fig. 20

# Macro Bubble Testing Shows Ability to Correct Microwave Consistency Analyzer

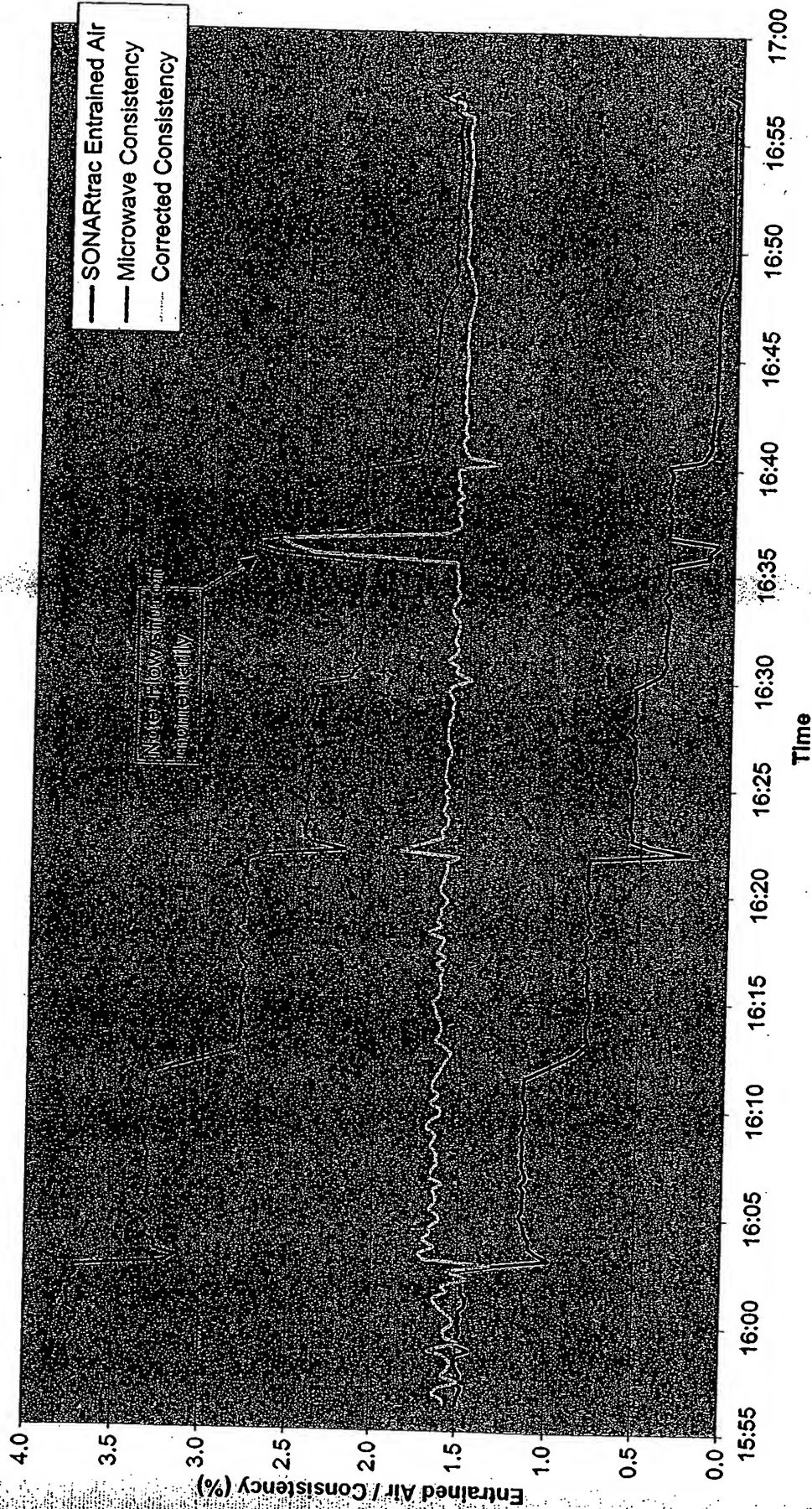


Fig. 21



# Microwave Consistency Corrected by CIDRA SONARtrac Entrained Air Measurement "Micro" Air Flow Test

